Please cancel claim 14 and combine into claim 1:

- (Currently Amended) An arrangement for cooling a circuit board (2), comprising:
 - a generally flat carrier frame (4);

elements (41, 43, 44; 80) connecting said frame to the circuit board (2) and supporting said frame thereon;

- a ring-like air passthrough aperture (47); and
- a miniature fan (3) that is mounted on a first side (C) of the carrier frame (4) facing away from the circuit board (2) and at a distance from the circuit board, and is equipped with
- a fan wheel (31) that, during operation, rotates about a rotation axis (A) and transports air through the annular air passthrough aperture (47), there being provided on the carrier frame (4), on the side of the air passthrough aperture (47) facing toward the circuit board (2),

an air-directing element (5) which serves to deflect the flow direction of at least a portion of the air transported, during operation, through the air passthrough aperture (47), wherein

the air-directing member (5) is formed with penetrations (60, 62; 64, 66; 68; 70, 72; 74, 76, 78) in order to direct, through a wall of the air-directing member (5), a portion of the air flow delivered by the fan (3).

- 2.(Previously Presented) The arrangement according to claim 1, wherein the air-directing element (5) is configured as a bell that widens in a radial direction 0) away from the fan (3).
 - 3. (Previously Presented) The arrangement according to claim 1, wherein

the carrier frame (4) comprises, radially inside the air passthrough aperture (47), a support member (45) on which the fan (3) is arranged.

- 4. (Previously Presented) The arrangement according to claim 3, wherein the support member (45) is joined, via struts (45a), to a part (40) of the carrier frame (4) located radially outside the air passthrough aperture (47).
- 5. (Previously Presented) The arrangement according to claim 4, wherein the part (40) of the carrier frame (4) located outside the air passthrough aperture (47) is configured as a tubular segment.
- 6. (Previously Presented) The arrangement according to claim 3, further comprising

an electronically commutated motor (33) mounted on the support member (45) and coupled to drive the fan (3); and

- a circuit plate (6), which connects the motor (33) to electrical connecting leads (61), and is arranged between that motor (33) and the support member (45).
- 7. (Previously Presented) The arrangement according to claim 6, wherein the circuit plate (6) comprises electronic components for commutation of the motor (33) serving to drive the fan.
- 8. (Previously Presented) The arrangement according to claim 6, wherein the electrical connecting leads (62) are guided in the carrier frame (4), and are implemented at their circuit-board end (D) for electrical contacting with the circuit board (2).
- 9. (Previously Presented) The arrangement according to claim 8, wherein the connecting leads are implemented as wire connections (61) that are at least partially surrounded by a sheath (51).
- 10. (Previously Presented) The arrangement according to claim 5, wherein

said fan includes a fan wheel (31) having an outer side which, together with an inner side (47a) of the part (40) implemented in the manner of a tubular segment, forms an annular space (47) inside which, during operation, blades (32) of the fan wheel (31) rotate.

- 11. (Original) The arrangement according to claim 10, wherein the cross section of the annular space (47) widens in the direction toward its outlet.
- 12. (Previously Presented) The arrangement according to claim 1, wherein the carrier frame (4) comprises, on its side facing away from the circuit board, an end surface (42) on which a sealing ring (7) is arranged.
- 13. (Previously Presented) The arrangement according to claim 12, wherein a depression, inside which the fan (3) is arranged, is provided inside the end surface (42) of said carrier frame.

14. (Cancelled)

- 15. (Previously Presented) The arrangement according to claim 1, wherein the fan (3) is arranged to transport, through the air passthrough aperture (47), air coming from the air-directing element (5).
- 16. (Previously Presented) The arrangement according to claim 1, wherein
- the fan (3) is arranged to transport air through the air passthrough aperture (47) in a direction that goes from the air passthrough aperture (47) to the air-directing element (5), in order to deflect the air at that element in a direction away from the rotation axis (A) of the fan (3).

17. (Currently Amended) A carrier frame (4) for installation of a fan (3) at a predetermined distance from a circuit board (2), comprising

a support member (45) that, in an installed state, is at a distance from the circuit board (2) and serves as a carrier for a motor (33) of the fan (3), which support member (45) is surrounded by an air flow passage (47) that in turn is surrounded by an outer airguiding member (14) that is joined via at least one joining member (45a) to the support member (45), which joining member (45a) crosses the air flow passage (47);

installation elements (41, 43, 44; 80) being provided for installation of the carrier frame (4) on the circuit board (2); and an air-directing member (5) being provided on the support member (45) on a side of the support member (45) facing toward the circuit board (2), which air-directing member (5) serves to deflect the flow direction of at least a portion of air transported, during operation of the fan (3), through the air flow passage (47),

wherein the air-directing member (5) is formed with at least one penetration (60, 62; 64, 66; 68; 70, 72; 74, 76, 78) that serves to direct, through a wall of the air-directing member (5), a portion of the air flow delivered by the fan (3).

18.(Previously Presented) The carrier frame according to claim 17, wherein

the air-directing element (5) is shaped as a bell whose open side faces toward the circuit board (2).

19. (Currently Amended) The carrier frame according to claim 17, wherein

the support member (45) is joined, via struts joining members (45a), to a part said air quiding member (40) located radially outside the air passthrough aperture passage (47).

20. (Currently Amended) The carrier frame according to claim 19, wherein

the part air quiding member (40) located outside the air passthrough aperture passage (47) is formed as a tubular segment.

21.(Previously Presented) The carrier frame according to claim 17, further comprising

an electronically commutated motor (33) mounted on the support member (45) in order to drive the fan (3).

- 22. (Previously Presented) The carrier frame according to claim 21, wherein
- a circuit plate (6), adapted to connect the motor (33) to electrical connecting leads (61), is arranged between that motor (33) and the support member (45).
- 23. (Original) The carrier frame according to claim 22, wherein the circuit plate (6) comprises electronic components for commutation of the motor (33).
- 24. (Previously Presented) The carrier frame according to claim 22, in which the electrical connecting leads (61) are guided inside the frame, which leads are formed at their circuit-board ends with terminals (D) for electrical contact with the circuit board (2).

 $\,$ 25. (Previously Presented) $\,$ The carrier frame according to claim 24, wherein

the connecting leads are implemented as wire connections (61) that are at least partially surrounded by a sheath (51).

26. (Previously Presented) The carrier frame according to claim 20, wherein

an outer side of the fan wheel (31) forms, together with an inner side (47a) of the part (40) configured as a tube section, an annular space (47) inside which, during operation, blades (32) of the fan wheel (31) rotate.

- 27. (Previously Presented) The carrier frame according to claim 26, wherein the cross section of the annular space (47) widens adjacent at least one end portion.
- 28.(Previously Presented) $\,$ The carrier frame according to claim 17, wherein

the frame has a side facing away from the circuit board (2), defining an end surface (42) on which a sealing ring (7) is arranged.

- 29. (Previously Presented) The carrier frame according to claim 28, wherein a depression for receiving a fan (3) is formed inside the end surface (42).
 - 30. (Cancelled)

31. (Currently Amended) A carrier frame for installation on a circuit board (2), which frame comprises

a platform (117) that is equipped with supporting legs (105, 106, 107, 108) for mounting on the circuit board (2), a center of the platform (117) being formed with a depression (121, 123; 40, 47a) that is adapted to receive a fan (3) in an air passthrough aperture (130, 47) at a distance from the circuit board (2), an outer wall (123; 47a) of the depression (121, 123; 40, 47a) forming part of said air passthrough aperture (130, 47) and cooperating with said fan.

32. (Previously Presented) The carrier frame according to claim 31, wherein

the supporting legs (105 to 108) are formed integrally with the platform (117).

33. (Previously Presented) The carrier frame according to claim 31, wherein

the supporting legs (105 to 108) are at least partially hollow.

34. (Previously Presented) The carrier frame according to claim 31. wherein

at least one supporting leg (107, 108) further comprises a latching element (107b, 108b) for latching into an associated opening (113) of the circuit board (2).

35. (Previously Presented) The carrier frame according to claim 34, wherein

at least one supporting leg $(105,\ 106)$ is provided which comprises no latching element and is longer than a supporting leg $(107,\ 108)$ equipped with a latching element $(107b,\ 108b)$.

36. (Previously Presented) The carrier frame according to claim 34, wherein

at least one supporting leg (105, 106) is provided which comprises no latching element and comprises, at its free end, a portion (110, 111) whose diameter is complementary to the diameter of a predetermined opening (112) of the circuit board (2), which opening is associated with that supporting leg.

37. (Previously Presented) The carrier frame according to claim 34, on which are provided

electrically conductive elements (61) that are implemented to form, upon installation of the carrier frame on a circuit board (2),

a respective electrical connection to a counter-element (114) provided on the circuit board.

- 38. (Previously Presented) The carrier frame according to claim 37, wherein the electrically conductive elements are implemented as pins (61).
- 39. (Previously Presented) The carrier frame according to claim 37, wherein

the electrically conductive elements (61) are electrically connected to a circuit plate (6) that serves to deliver electrical energy to a fan (3) arranged on the carrier frame (104).

- 40. (Previously Presented) The carrier frame according to claim 39, on which the circuit plate (6), in an installed state, is immobilized in a predetermined position.
- 41.(Original) The carrier frame according to claim 40, wherein at least one latching spring (140, 142) is provided for immobilization of the circuit plate (6), which spring latches the circuit plate (6) in a predetermined position.